I continue to report on <u>both</u> new <u>confirmed</u> and new <u>probable</u> cases as reported by the DPH and as they appear in MAVEN, respectively. Reporting on both of those numbers allows the best longitudinal comparison with past data and also most accurately reflects the incidence of new cases and thus the workloads of our town Public Health Nurses who carry out the contact tracing work.

Daily new case number in Barnstable County continue at their post-autumn elevated levels. Our **7-day average** cases <u>per 100,000 population</u> per day continues to rise and is 34/100K, with 7-day <u>average cases per day</u> of 72. Yesterday afternoon the DPH reported **92** new confirmed cases for Barnstable County.

Barnstable County's 3-day (12/9-12/11) new case tally peaked at **267** cases last week. The second-highest 3-day tally was this week at **242** cases (12/15-12/17).

Nantucket's 7-day average cases <u>per 100,000 population</u> remains very high at 180/100K (avg. 21 new cases per day) but is down from its high of 202/100K (avg. 23 new cases per day) ten days ago. However, yesterday afternoon the DPH reported **16** new cases for Nantucket.

Martha's Vineyard's 7-day new case rate per 100,000 has decreased slightly this week, recorded yesterday at 54/100K (avg. 9 cases per day) which is up from 41/100K (avg. 7 cases/day) last week. Tuesday afternoon the DPH reported 20 new confirmed cases for MV; an additional 12 cases have been reported since then.

During the 14-day period from 11/29 to 12/12/2020 Barnstable County added 893 confirmed cases, with a test positivity rate of 4.4%--slightly higher than the prior two-week period. During that same two-week period Nantucket and Martha's Vineyard jointly added 401 confirmed cases, with a test positivity rate of 8.47%--much higher than the prior two-week period. Martha's Vineyard and Nantucket's combined percent positivity figures remain higher than the statewide positivity rate of 6.01% during the same period.

Fatalities from COVID are increasing in Barnstable County; the total is now **212**. Our fatalities have now climbed beyond the muted pattern of last summer and fall (see chart below).

Hospitalizations and **acuity of illness** have increased very significantly since the second week of November and remain elevated. Cape Cod Hospital and Falmouth Hospital have now **suspended visitation** of inpatients except under very limited circumstances (end-of-life, etc.).

As of yesterday (3pm), the DPH's reporting shows that there were **40** COVID **patients in hospital**, **7** of which were in the **ICU**. (See table below)

School districts are staying vigilant and reacting well to new cases. Several school districts (Cape and Islands) are dealing with increased confirmed and probable cases and the necessary knock-on effects of information transfer and follow-up. Several school districts on the Cape and Islands have moved to 100% remote learning.

This week our County Health Department, in partnership with Cape Cod Healthcare and the Hyannis Fire Dept, opened additional testing locations in Barnstable County for both symptomatic and asymptomatic persons-one in Falmouth at the Fairgrounds, and one in Hyannis at the Melody Tent. In the coming days additional testing sites on the Outer Cape will be established in partnership with Outer Cape Community Health Center at three locations. Eligibility criteria for the testing include residency in Barnstable County. Testing will be done by appointment only. Additional details can be found here: https://www.capecodhealth.org/medical-services/infectious-disease/coronavirus/covid-19-testing-process/

DPH-mandated **routine testing** in skilled nursing facilities/long term care settings (SNF/LTC) continues. This provides critical surveillance and allows these facilities to stay ahead of asymptomatic spread amongst staff and residents. Routine testing in SNF/LTC settings has increased to weekly for staff.

In addition, the State's **BinaxNOW** rapid testing program (already available to schools) has been extended to visitors of **nursing homes** and rest home residents (LTC settings) to allow visitation of residents while limiting the risk of infection from visitors. DPH has published guidance on this. The program has also been extended to **childcare centers** and further information will be forthcoming.

Among the charts below is DPH's weekly analysis of new and active **case clusters**. The table presents the number of cases by type of location, statewide. I have sorted the DPH data to show the listing of cluster settings by greatest number of new confirmed cases. The top 10 are listed here; the full table can be found below.

Active COVID Clusters by Exposure Setting Type, as of 12/17/20

Source: https://www.mass.gov/info-details/covid-19-response-reporting. Tabulation: V. Harik, Barnstable County DHS

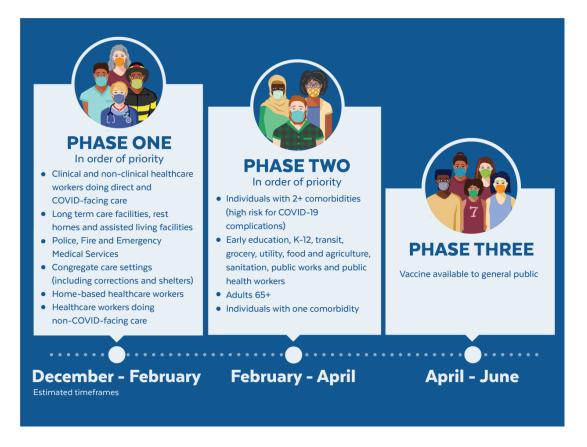
Sorted by Number of Cases in New Cluster Settings

			New Clusters		On	going Clusters			
		(Identified 11/15/20 – 12/12/20)				tified Prior to g Criteria for 0		Total	
	Exposure Setting	Clusters	Confirmed Cases	Close Contacts	Clusters	Confirmed Cases	Close Contacts	Clusters	Confirmed Cases
1	Household	15,740	40,339		6,747	3,700		22,487	44,039
2	Long Term Care Facilities	142	1,378		171	1,776		313	3,154
3	Child Care	130	364	504	120	81	215	250	445
4	Social Gatherings	46	262	71	49	16	22	95	278
5	Senior Living	45	257	139	46	184	36	91	441
6	24/7 Congregate Settings	36	225	52	58	59	28	94	284
7	Restaurants & Food Courts	30	182	53	54	21	110	84	203
8	Hospitals	15	175	30	24	161	28	39	336
9	K-12 Schools	31	151	130	51	23	123	82	174
10	Other Workplaces	19	86	59	24	52	7	43	138

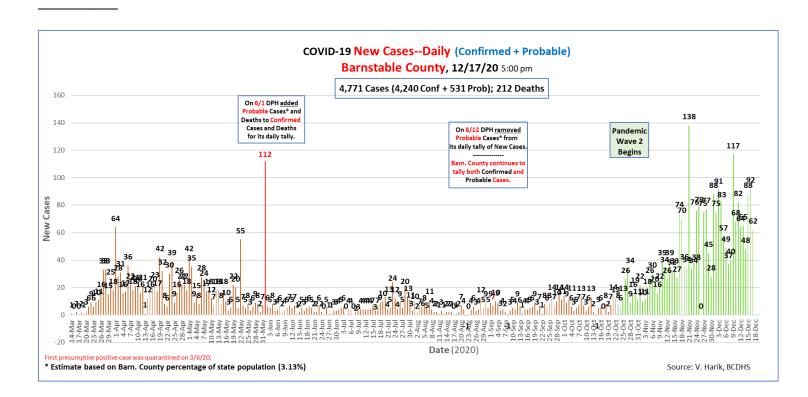
In addition, the weekly **town risk table** for the Cape and Islands is included below, updated yesterday. This week the towns of **Yarmouth** and **Barnstable** are joined by **Brewster** in being coded Red, indicating highest risk of community spread. Harwich, red during the prior fortnight has fallen back to yellow.

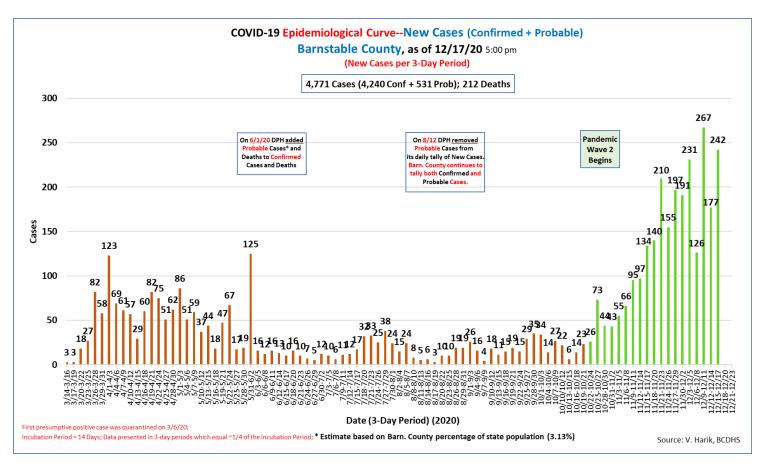
Regionally case levels continue to increase, without exception. Travel restrictions among all states in the Northeast Corridor have been mutually re-imposed; Hawaii is now the only state without travel restrictions.

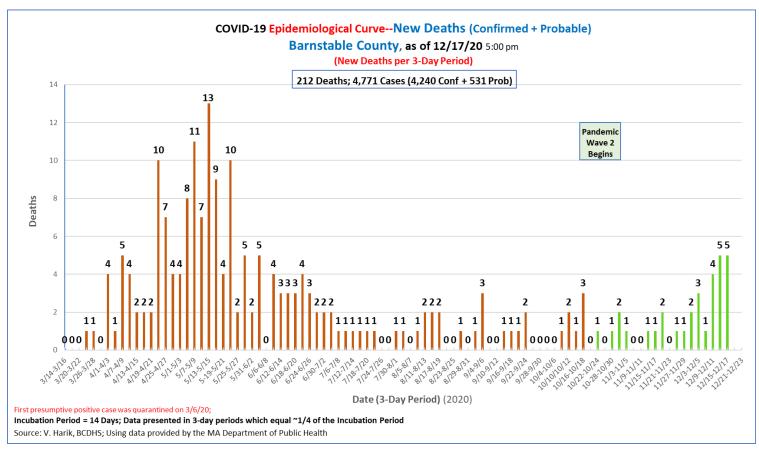
The **State COVID Vaccination Plan** for Phase 1 has been announced and conforms to the phases and prioritized populations identified by the CDC. In Phase 1 of the State Plan healthcare workers, older adults living in skilled nursing facilities/congregate care settings, police/fire/EMS, shelters/corrections, and other healthcare workers will be prioritized for vaccination as doses become available. We hope to see a prioritization of **childcare staff** alongside school staff in Phase 2. First shipments of vaccine will be to hospitals across the state for vaccination of their workers. The State has contracted with **CVS and Walgreens** to arrange vaccination of **older adults in SNFs/congregate care**.



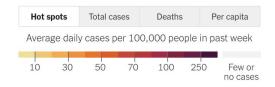
See the charts below for additional information.







SOURCE: New York Times (nytimes.com)



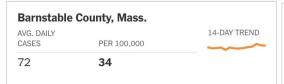
Use two fingers to pan and zoom. Tap for details.



Sources: State and local health agencies. Population and demographic data from Census Bureau.

► About this data

BARNSTABLE



Average daily cases per 100,000 people in past week

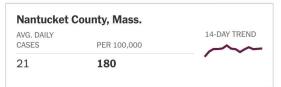
Use two fingers to pan and zoom. Tap for details.

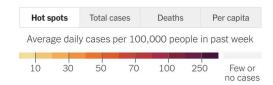


Sources: State and local health agencies. Population and demographic

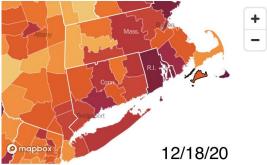
► About this data

NANTUCKET





Use two fingers to pan and zoom. Tap for details.



Sources: State and local health agencies. Population and demographic data from Census Bureau.

▶ About this data

DUKES



ource: V. Harik, Ba	rn. County Dept of Humai	n Services; Tabulation o	f MA DPH Data			
NEEKLY: (On Tue	esdays)	Not Cun	nulative	Cum		
Date Reported by DPH	Hospital	Hospital Beds Occupied	ICU Beds Occupied	Barnstable County Cases (Confirmed)	Barnstable County Deaths	3-day Avg. of Persons in Hosp (Ward + ICU)
11/12/2020	Cape Cod Hospital	1	0			
	Falmouth Hospital	0	0			
		1	0	2,266	187	1.0
11/17/2020	Cape Cod Hospital	8	1			
	Falmouth Hospital	3	0			
		11	1	2,835	188	9.3
11/24/2020	Cape Cod Hospital	11	0			
	Falmouth Hospital	4	0			
		15	0	3,261	190	15.7
12/1/2020	Cape Cod Hospital	14	3			
	Falmouth Hospital	7	1			
		21	4	3,129	192	25.7
12/8/2020	Cape Cod Hospital	14	5	1		
	Falmouth Hospital	7	2			
		21	7	3,554	198	19.3
12/15/2020	Cape Cod Hospital	19	5			
	Falmouth Hospital	7	1			
		26	6	4,086	210	27.3
OST RECENTLY	REPORTED:					
12/17/2020	Cape Cod Hospital	22	5			
	Falmouth Hospital	11	2			
		33	7	4,240	212	28.0

MA DPH Data	Dashboa	ard, WEEK	LY REPOR	Γ of 12/17	7/20 (for t	he Period 11/	29/20 to 12/1	2/20)	
	(March 2020 to Present)		Average Daily	Relative				Percent	Change in
	Total Case	Case Count	Incidence	Change in		Total Tests	Positive Tests	Positivity	Percent
City/Town	Count	Last 14 Days	Rate per 100K	Case Count	Total Tests	Last 14 Days	Last 14 Days	Last 14 Days	Positivity
Barnstable	1,377	258	41.2	Lower	33,984	4,854	284	5.85%	Lower
Bourne	426	91	30.9	Higher	18,798	2,321	97	4.18%	No Change
Brewster	172	26	18.7	Higher	7,698	1,154	29	2.51%	Higher
Chatham	66	13	15.9	Higher	4,362	622	13	2.09%	Higher
Dennis	216	45	24.6	Lower	8,651	1,100	47	4.27%	Lower
Eastham	44	11	17.1	Higher	2,582	275	13	4.73%	Higher
Falmouth	563	125	28.6	Higher	31,572	4,367	161	3.69%	Higher
Harwich	265	47	26.7	Higher	8,992	1,128	55	4.88%	Lower
Mashpee	222	63	29.0	Higher	12,173	1,657	69	4.16%	Higher
Orleans	41	9	11.4	Lower	3,266	384	9	2.34%	Lower
Provincetown	36	4	11.1	Higher	2,818	297	5	1.68%	Higher
Sandwich	251	62	21.0	Higher	14,118	1,686	63	3.74%	Higher
Truro	18	3	10.9	Higher	1,228	116	3	2.59%	Higher
Wellfleet	25	8	20.7	Higher	1,747	154	9	5.84%	Higher
Yarmouth	457	128	38.0	Higher	17,618	2,588	143	5.53%	Higher
Barnstable County	4,179	893	29.4	Higher	169,607	22,703	1,000	4.40%	Higher
Aquinnah	3	0	0	No Change	381	23	0	0%	No Change
Chilmark	6	1	9	Higher	2,398	146	1	1%	Higher
Edgartown	121	31	54.2	Higher	7,173	664	36	5.42%	Higher
Gosnold	5	0	0	No Change	111	0	0	0%	No Change
Oak Bluffs	91	35	48.0	Higher	4,685	491	37	7.54%	Higher
Tisbury	130	26	44.5	Higher	9,038	864	29	3.36%	Higher
West Tisbury	47	14	34.8	Higher	3,185	266	15	5.64%	Higher
Dukes County	408	108	*	Lower	26,971	2,454	118	4.81%	Lower
Nantucket County	622	294	184.0	Higher	13,821	2,502	302	12.07%	Higher
State	292,316	63,445	65.1	Higher	9,809,105	1,202,244	72,236	6.01%	Higher

Data Source: MA DPH, 12/17/20 Weekly COVID Report (https://www.mass.gov/info-details/covid-19-response-reporting); Analysis: V. Harik BCDHS.

Sources: Census.gov; MA DPH Weekly COVID R	eport, 12/17/20. Analysis: V. Harik, BCDH	S		
	MA	Bar	nstable County	
Population Estimate (@ July 1, 2019)	<u>6,892,503</u>		212,990	
	Barnstable Cour	ity % of MA Pop.	3.09%	
	Barn. County % c	1.73%		
	Barn. County % of MA Tests,	Past Two Weeks	1.89%	
	Barn. County % of MA <u>Total</u>	Confirmed Cases	1.43%	
	Barn. County % of MA Confirmed Cases,	1.41%		
	MA % Positive T	ests Last 14 Days	6.01%	
	Barnstable County % Positive To	4.40%		

Active COVID Clusters by Exposure Setting Type, as of 12/17/20

Source: https://www.mass.gov/info-details/covid-19-response-reporting. Tabulation: V. Harik, Barnstable County DHS

Sorted by Number of Cases in New Cluster Settings

			New Clusters		On	going Clusters			
		(Identifi	ed 11/15/20 – 12	2/12/20)	,	tified Prior to g Criteria for (Total		
	Exposure Setting	Clusters	Confirmed Cases	Close Contacts	Clusters	Confirmed Cases	Close Contacts	Clusters	Confirmed Cases
1	Household	15,740	40,339		6,747	3,700		22,487	44,039
2	Long Term Care Facilities	142	1,378		171	1,776		313	3,154
3	Child Care	130	364	504	120	81	215	250	445
4	Social Gatherings	46	262	71	49	16	22	95	278
5	Senior Living	45	257	139	46	184	36	91	441
6	24/7 Congregate Settings	36	225	52	58	59	28	94	284
7	Restaurants & Food Courts	30	182	53	54	21	110	84	203
8	Hospitals	15	175	30	24	161	28	39	336
9	K-12 Schools	31	151	130	51	23	123	82	174
10	Other Workplaces	19	86	59	24	52	7	43	138
11	Other Healthcare	16	74	64	23	19	10	39	93
12	Industrial Settings	16	65	25	65	162	56	81	227
13	Colleges & Universities	7	63	12	33	7	27	40	70
14	Retail & Services	13	37	10	21	15	16	34	52
15	Organized Athletics/Camps	5	26	91	25	15	108	30	41
16	Other Food Establishments	5	26	6	8	8	1	13	34
17	Recreation/Cultural	4	23		4			8	23
18	Places of Worship	1	6		15	12	11	16	18
19	Offices	2	5		14	1	2	16	6
20	Other	1	5		8	5	30	9	10
21	Corrections	1	2		15	860	128	16	862
22	Shelters				5	3	11	5	3
23	Travel & Lodging				3			3	
	TOTAL	16,305	43,751	1,246	7,583	7,180	969	23,888	50,931

New Clusters: Clusters with the first case (indicated by the first positive lab result) identified during the four week period 11/8 – 12/5/2020.

Ongoing Clusters: Clusters with the first case identified prior to 11/15 that has not met criteria to be closed. Confirmed cases included in ongoing clusters occurred between 11/15 and 12/12 but are associated with a cluster that began prior to 11/15. Close contacts included in ongoing clusters occurred between 11/15 and 12/12 but are associated with a cluster that began prior to 11/15.

Closed Clusters: A cluster is closed after 28 days have passed since the last confirmed case; 19,676 clusters are closed, 102,201 cases are associated with closed clusters

Source of Data: Massachusetts Department of Public Health, Bureau of Infectious Disease and Laboratory Sciences. Long Term Care Facility Data from the National Healthcare Safety Network beginning 5/31/2020. All other data from MAVEN and are subject to change. Only clusters consisting of two or more confirmed Massachusetts cases with a common exposure have been included.

MA DPH Data D Data Source: MA DPH, 12)			
County Barnstable County	Total Case Count	Case Count (Last 14 Days) 893	Average Daily Incidence Rate per 100,000 (Last 14 days)	Relative Change in Case Counts ¹ Higher	Total Tests	Total Tests (Last 14 days) 22,703	Total Positive Tests (Last 14 days)	Percent Positivity (Last 14 days)	Change in Percent Positivity ² No Change
Berkshire County	2,330	585	33.1	Lower	163,902	17,139	668	3.90%	Lower
Bristol County	27,549	6,498	81.2	Higher	587,763	73,986	7,402	10.00%	Higher
Dukes and Nantucket Counties	1,025	401	99.4	Higher	40,792	4,956	420	8.47%	Higher
Essex County	47,846	11,323	101.5	Higher	999,581	139,465	13,614	9.76%	Higher
Franklin County	1,030	351	35.2	Higher	85,541	7,901	380	4.81%	Higher
Hampden County	21,402	4,483	68	Higher	484,923	61,801	5,285	8.55%	Higher
Hampshire County	3,038	641	27.9	Higher	332,172	22,816	706	3.09%	Higher
Middlesex County	61,641	13,407	58.9	Higher	2,489,721	319,519	15,088	4.72%	Higher
Norfolk County	21,684	4,738	47.3	Higher	854,368	107,062	5,233	4.89%	Higher
Plymouth County	19,430	4,008	54.3	Higher	467,763	61,518	4,429	7.20%	Higher
Suffolk County	46,365	8,076	71.3	Higher	1,918,588	226,193	9,153	4.05%	Higher
Worcester County	33,973	7,842	66.8	Higher	1,035,067	119,098	8,658	7.27%	Higher
Unknown ³	824	199	*	*	179,317	18,087	200	*	*
State	292,316	63,445	65.1	Higher	9,809,105	1,202,244	72,236	6.01%	Higher

Data are current as of 11:59pm on 12/15/2020;

Number of new cases occurring over the current two-week period (11/29/2020 – 12/12/2020) compared to the previous two-week period (11/22/2020 – 12/5/2020). Higher=number of new cases in the current two-week period higher than the number of new cases during the last two-week period. No change=number of new cases in current two-week period is equal to the number of new cases during the last two-week period. We change number of new cases in current two-week period is equal to the number of new cases during the last two-week period.

Change in percent positivity compared to the previous week's (12/10/2020) report. No Change=<0.10% difference in the percent positivity.

4 Address information for these cases is currently being obtained. DPH calculates rates per 100,000 population using denominators estimated by the University of Massachusetts Donahue Institute using a modified Hamilton-Perry model (Strate S, et al. Small Area Population Estimates for 2011 through 2020, report, Oct 2016.).

Please note: Data for these tables are based on information available in the DPH surveillance database at a single point in time. Case counts for specific cities and towns change throughout the day as data cleaning occurs (removal of duplicate reports within the system) and new demographic information (assigning cases to their city or town of residence) is obtained.

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